

## FOUR ENGINEER CREWS LOSE HARLEM REGATTA TO COLUMBIA OARSMEN

### LIONS COMPLETE WINNING SEASON BY CLEAN SWEEP

Lead Technology Varsity by Five  
Lengths in Saturday Races  
on Home Course

#### J. V. RACE IS CLOSEST

Outrowed by more than five lengths, the Engineer Varsity lost the last scheduled race of the season to the undefeated Columbia crew Saturday afternoon on the Harlem River. Columbia made a clean sweep of the regatta, winning every race of the afternoon, and ending one of the most sensational seasons in the rowing history of Columbia.

The Technology J. V.'s lost their race by a length and three-quarters, which was the closest victory scored by the second Columbia Varsity this season. In the second race of the afternoon, the 150 pound Varsity lost to the light Lion boat by five lengths in the Henley distance, while the yearlings lost to the first Columbia freshmen by two lengths.

#### Columbia Keeps Lead

Taking the lead at the start, the first Lion eight plowed ahead of the Engineers and were more than a length ahead of their opponents at the quarter mark. The Columbia crew was rowing a faster stroke, and as the boats approached the half, the Columbians again raised the stroke, increasing their lead over the first Technology eight. Pulling away steadily the Lions crossed the mark a full five lengths ahead of the Engineers, who were rowing hard to overcome the lead of their opponents. The time for the race was: Columbia,

(Continued on Page 3)

#### Students Visit Three Boston Harbor Forts

Transported by the good tug, General Thomas Jessup, approximately 200 students from the Sophomore military science classes visited Fort Andrews, Standish, and William Long, on Saturday afternoon. One sweet young thing chaperoned the group and seemed to enjoy herself immensely. Some of the students wanted to ride on the front of the 16 inch gun on Fort William Long while it was being elevated but were not permitted to do so.

#### SENIORS MAY GIVE NOTE TO AID FUND

Bursar Will Accept Note Instead  
of Cash Donation as Gift  
to Institute

Since the Senior Endowment Committee feels that there are many Seniors who would like to make a contribution to the class gift but do not have the necessary cash, an arrangement has been made with the Institute whereby the donation may be made by means of a note.

Those desiring to do this may give a note, or several notes if it is desired to split the total into smaller sums, to the Institute to be paid at some later date when the man is working. In this way it will be possible for each Senior to do his share without an actual cash outlay.

All arrangements for these notes may be made with Horace S. Ford, Bursar. The Committee wishes to urge as many Seniors as possible to take this means of contributing to the class gift so that the total may be announced on Class Day, June 3.

(Continued on Page 3)

## Developments in Business Management Are Made by Department of Economics

#### Apply Mathematical Analysis to Problem of Economic Production Size

(This is the eighth of a series of features articles describing the work progressing in the many interesting laboratories and experiment stations in the Institute. Watch for more of these—*to know Technology*.)

Research and scientific methods may be as profitably applied to the management of business as to the products of business. A growing recognition of this fact is leading to a complete reorganization of business methods. While the much-vaunted quickness of decision of the old business leaders was usually based on nothing more substantial than opinions and hunches, the modern business men plan and organize their operations like scientists with consideration of all factors affecting them.

The Department of Economics and Statistics, under the direction of Professor Davis R. Dewey, has for the past few years been actively engaged in extensive investigations to meet this growing need for improved technique in business management. The manner of attacking the problems has been unique. The Department has not followed the usual custom of approaching management research from economic surveys and other external data, but has capitalized on Technology's engineering position and applied true engineering technique. The object has been to derive definite measures for guiding business activities in the form of simple mathematical equations.

**Problems Now Under Consideration**  
An important part of the work is the attempt to bring together the scattered knowledge gained through business experience and the results of various industrial and govern-

mental research organizations in order to lay down universal principles of management which can be presented to students in the Course in Engineering Administration.

Attention will also be devoted to such phases of business administration as sales, distribution, finance, office management, and factory production and co-ordination. Fairfield E. Raymond, Assistant Professor of Industrial Research, is devoting his entire time to research work in the Department, at present being engaged in studying economic production quantities.

Other concrete problems relating to business management scheduled for investigations are: obsolescence and depreciation, a study of when to scrap old machinery and replace it with a more efficient type; determination of order point and minimum stock; economic factor of spoilage and inspection, an investigation of the quantitative effect of these factors on production schedules and economic purchase quantities.

**Study Production Quantities**  
An intensive study has been made by Mr. Raymond on the problem of economic production quantities. As a result of this research a general mathematical equation has been evolved in which all factors influencing the size of the so-called "lots" appear as functions of the "lot size." Evaluation of these functions and solution of the equation gives an absolute numerical answer which is the most economic production quantity for the particular product under consideration. The general formula, however, in taking into consideration everything up to and including the human factor becomes much too complex for practical use.

During the last few months Dr. Raymond has given special attention to the practical application of the formula (Continued on Page 4)

#### Final Review Of Freshman R.O.T.C. Battalion Today

Planting of Tree Will Follow  
Inspection of Corps  
by Dr. Stratton

#### PICTURE TO BE TAKEN

Holding its final drill and review this afternoon the freshman R.O.T.C. battalion will be inspected by President Samuel W. Stratton and the Corps officers. A regular formal review, such as was held last Friday afternoon will take place. At its conclusion a picture will be taken of the entire battalion standing at attention.

When the inspection has been completed the Corps headed by the R. O. T. C. Band will march over to Walker Memorial near which a tree will be dedicated to the Class of 1932. This ceremony is similar to that which took place last year when the Class of 1931 planted a tree in its memory.

During the tree-planting exercises Dr. Stratton will be the main speaker. He will be followed by Joseph Paul, President of the freshman class, who will present the tree and dedicate it to the class. At the conclusion of the tree-planting ceremony the R. O. T. C. will disband for the year.

#### Lacrosse Players Lose Final Game To Terrier Team

Olmstead Makes Only Goal for  
Engineers as B.U. Wins  
by Score of 3-1

Boston University handed Technology's Varsity lacrosse twelve a 3 to 1 defeat in a game played Friday afternoon at Nickerson Field. The game was rather slow, as both teams were yet new to the sport, both Institutions having adopted it this year. B. U. had about twenty-five men on the squad and made frequent substitutions to good advantage, while the Engineers could not do much with only one substitute.

From the Terriers' viewpoint, Nelson was the individual star of the day, accounting for two of the B. U. goals. The only Cardinal and Gray tally came in the first half when Glenn Goodhand, the Engineers' center, passed the ball to Bill Olmstead who drove it past goalie Grodberg.

#### Final Game for M.I.T.

It was the last game for the Engineers, and a banquet for both the Varsity and freshman teams will be held some time this week.

#### The Summary:

Technology—Olmstead, out home; Puffer, in home; Kocher, first attack; Fricker (Grenier) second attack; Matthews, third attack; Goodhand, center; Walker, third defense; Soden, second defense; Kitendaugh, first defense; Motter, cover point; Deyarmond, point; Gardner, goal.

Boston University—Barron, out home; Boroski, in home; Crosby, first attack; Snow, second attack; Buswell, third attack; Nelson, center; Lombard, third defense; Carney, second defense; McCarthy, first defense; Mitchell, cover point; Duff, point; Grodberg, goal.

Goals—Boroski, Nelson 2, Olmstead.

#### FINAL ISSUE OF VOO DOO ON SALE TODAY

As the final issue of the year Voo Doo will put the "Limelight Number" on sale today. The magazine was reviewed in the last issue of THE TECH. It features cracks at certain individuals around the Institute and contains exceptionally good art work.

## TRACK TEAM CAPTURES FIVE FIRSTS IN MEET WITH NEW HAMPSHIRE

#### WILDCATS WIN BY SUPERIOR RUNNING IN TRACK EVENTS

Grondal Takes Two First Places  
in Shot Put and Discus  
Throw Saturday

#### THORSEN WINS TWO-MILE

Journeying to Durham, N. H., on Saturday afternoon, the Varsity track team met the third defeat of the season at the hands of their annual rivals, the New Hampshire Wildcats. Much good running was shown by the Engineers but the superior strength of New Hampshire in the track events was sufficient to win for them by the score of 90 5-6 to 44 1-6. M.I.T. showed great strength in the field events, capturing four firsts, two of which were made by Grondal in the shot put and discus throw. Benjamin won the high jump, equaling the Institute record for the event.

#### Ladd Takes Two Seconds

In the dashes, M.I.T. scored two second places, both being made by Ladd, and two thirds, made by Broder and Jandris respectively. Noyes, the speed star of the Wildcat squad, won the quarter from Captain Hallahan in the fast time of 49 seconds. In the half mile the Engineers also took a second place when Berry was beaten out by Lazure of New Hampshire in 2 minutes, 3-5 seconds.

#### Thorsen Wins Two-Mile

The first win for M.I.T. came in the two mile event. Thorsen and Hazen ran neck and neck for the first seven laps, but the Engineer cross country veteran stepped out in a fast sprint for the entire last quarter-mile, giving him a large lead over the New Hampshire runner as he crossed the tape in 9 minutes, 48 3-5 seconds. McNiff placed third in this race.

#### Benjamin Equals Record

In the field events Phil Benjamin, (Continued on Page 4)

#### ELECT OFFICERS FOR TAU BETA PI

President Stratton Addresses  
Members of Society at  
Final Meeting

At the final meeting of the year of Tau Beta Pi held at the house of President Samuel W. Stratton, Friday night, officers for the coming year were elected.

The meeting followed a buffet dinner served at 6:30 o'clock. Immediately after the dinner President Stratton addressed the members of the society.

The new officers are: D. Tullis Houston '30, president; Fred N. Dickerman '30, vice-president; George J. Meyers '29, corresponding secretary; Joseph Harrington, Jr. '30, recording secretary; James G. Muir '30, treasurer; and Allen Latham, Jr. '30, cataloguer. Dickerman was elected as the delegate to the national convention which will be held next fall in Iowa City. William R. Jackson '30, is alternate.

#### "Tech Night" at Pops Concert to be Featured by Spirited Performance

Conductor Arranges Program of  
Notable Scores, Jazz, and  
Marimba Solos

Although there have been many memorable Tech nights at the Pops in years past, plans for "Tech Night" on Thursday, May 30th, indicates an evening which will far outstrip the most riotous of the Tech Nights which have gone down in history. Tech Night at the Pops is not for the Senior Class alone, but is for all classes and the faculty as well. It is hoped that all the underclassmen will attend so as to make the affair more enjoyable and help to make the start of Senior Week a big success. Tickets will be available at the Senior Week desk Monday and Tuesday of this week.

Arthur Fiedler is to conduct the Pops Orchestra and meeting all possible contingencies more than half way, he has contrived what may safely be called the peppiest programme the Pops have ever known.

That this popular conductor appreciates the spirit of the occasion is seen in his generous infusion of jazz and such selections as "Wine Woman and Song," and the stirring marches at the start and finish.

A feature of this programme, of international importance, will be "The Cow on the Roof," the remarkable score of Darius Milhaud, the famous French composer, which is to have its first American performance on this occasion. The Tech-

nology student body has perhaps little suspected that the episode of the cow on the roof, just one year ago, had reverberations in Europe. The music of Milhaud, the most brilliant of the notorious "groupe des six" of Paris, is played and known the world over. His "Cow on the Roof" was conceived as a ballet, bearing the French title of "Le Boeuf sur la toit," and was so performed in London and Paris. Since the crowded stage would make it difficult to mount a ballet on Tech Night, the music will be played by the Orchestra as a suite. The first American performance of this notable score will give Tech Night this year a very considerable musical importance.

Another feature of the programme will be a group of solos by Lawrence White, the noted virtuoso of the Marimba. This instrument is of Central American origin. It is similar to the xylophone, but its tone is made more resonant by special wooden chambers of varying lengths, which are built beneath the cross pieces.

"Tech Night" at the Pops Concert affords an opportunity for undergraduates, Seniors, alumni, and faculty to get together in a true Technology atmosphere and enjoy an evening which will be memorable to all. As has often been stated one of the most delightful powers of music is the stimulation it gives the memory. The many friendships and experiences of years spent at Technology become an integral part of the annual "Tech Night" and are remembered for years afterwards. Particularly is this concert to be a typical Technology affair due to the splendid co-operation of Arthur Fiedler in arranging a program which will be enjoyable to all.

A Record of  
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Official News  
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### LAST MINUTE HOPES

DANGER! Examinations are just ahead and there is no detour. The question is then, "What steps can be taken to make this monster-dragon as harmless as a chameleon?" The man who has made all H's throughout the term need not worry one way or the other. But alas, this sector is but sparsely entroped. For the rest, the question quickly and decisively resolves itself into "To cram or not to cram?"

Faculty members as a group oppose cramming. Forgetting their own school days, they point out philosophically that if a student has not properly covered the material during the regular hours that the burning of "owl oil" will do little else than create a jumbled mass of confusing ideas each pushing and struggling for supremacy. We also hear that nocturnal enthusiasts are apt to dull their daylight wits to such an extent that the evening's gain is the morning's loss.

In face of these comfortingly lazy reflections, like a red flag to the dozing bull, comes the fact that at least a few fortunate souls are able by the simple, last-minute perusing of the text to so fix the content in their photographic minds that the entire book goes with them to the class-room, serving them dependably and adequately until the bell. And then lost, as irrevocably as it was speedily gained. This tremendous power of memory is useful undoubtedly at the moment. Its poisonous attributes are of course also apparent for if next year's subjects are based on the momentary knowledge, then a gulf must be bridged, and bridges are hard to build.

The advisability of cramming, like most other things, depends upon the individual. It is a particular question and requires a particular answer. It follows then, that the most valuable attribute that can be possessed, to deal with this situation and all situations, is that admonition of Socrates, "Know thyself."

### WHO SHALL PAY?

STUDENTS should pay the full costs of their education, instead of accepting part payment from the institution where they receive their instruction. This is the opinion that is being propounded by several of the leading benefactors of the educational institutions of the country, including some of the men interested in Technology.

It is well known that the cost of education at a place like the Institute is more than double the tuition fees, and that the situation is obviously more favorable to the student at state institutions where instruction is free. The argument of these men is that since the student receives the benefit of the education he should pay for it if possible.

Naturally, opposition to this view, however logical it might seem, is plentiful, and comes from many others besides the actual undergraduates and those who support them financially. The answer to the above theory is simple and clear.

It is necessary merely to consider the present industrial situation, where there are numbers of large corporations in whose research laboratories there are employed a considerable percent of Technology graduates. Many of these laboratories are controlled by Institute men, and it is these research departments which have been the cause of much of the development and success of the companies. The men in them are probably paid at the most \$5000 or \$6000 per year, but it would be conservative to estimate that for each of these salaries the employing concern makes at least twenty times as much in annual profits. Engineers and other functional officials of a corporation are usually in about the same financial position as the research men.

How then can any one argue that it is the average individual student who receives the greatest benefit from his tuition here at Technology, or at other schools? Rather, it would be pertinent to say that it is industry that reaps the profits.

In such a case, the present system of partial support of educational institutions of the country by donations from those who have amassed much of the wealth of industry is not far from being the most just way. The captains of industry not only receive the benefits of their own education, but also that of all those whom they employ. It appears, then, that the average student is actually paying for more than his share of the rewards.

It is this latter view that is held by the majority of the administrators of the Institute. There is no foundation for undergraduate fears at Technology and at many other colleges that an increase in tuition is merely a step towards the conditions where the student will pay the full cost of his education.

### As We See the Movies

### METROPOLITAN

Paris comes to the Metropolitan this week, a Paris achieved of course in Hollywood, but the play carries the audience across the ocean from staid old Boston to the tears and laughter, the joys and sorrows of the life on the left bank of the Seine.

Such realism and depth of feeling as one very rarely sees are the work of Maurice Chevalier, in his first American picture, "Innocents of Paris." When one sees the effect of this marvelous actor on an American audience, it is small wonder that to his emotional compatriots he has become an idol.

Mr. William Bolitho, in his column in the "New York World," acclaims Chevalier as an ambassador of French courage and gaiety. No truer words were ever spoken. He carries through his action with a high hand, yet with such tender love, such spontaneity and humor, and such sincerity that one feels it is real life he is seeing, instead of rolls of celluloid.

The plot is not much—rather the action furnishes a binder for M. Chevalier's excellent singing and clever clowning. He is a French "Doug" Fairbanks, with less of the impossible feats of strength and more of a human soul. In "Innocents of Paris" one sees a story reminiscent of the life of its star—"Maurice Marney" rises from a lowly "antiquaire," (a charitable French term for "junk-man,") to fame, fortune, and love on the stage at the Casino de Paris.

A new idea is being tried out in the stage shows lately. Instead of the ordinary vaudeville acts, usually expressive of no continuity, a brief musical comedy, "Wall Street" is presented. The idea was accepted with enthusiasm, for the show is colorful.

### Away from the Grind

Two formal dances and a tea marked the extent of the social affairs of Technology this week-end. Although nearing the close of the year all were well attended and much enjoyed.

### ALPHA TAU OMEGA

About 125 couples were present at the formal dance held last Friday evening at the Alpha Tau Omega house. Dancing was to the music of Reggy Sackett's Orchestra. The affair lasted until the usual hour. Decorations of tree boughs and greenery gave a springtime atmosphere.

### DELTA KAPPA EPSILON

Delta Kappa Epsilon held their last dance of the season Friday evening at the Longwood Cricket Club. About 150 couples danced to the music of Bert Lowe's Orchestra until well past 3 o'clock. The evening was enlivened by the punch which was served and by the mean music that the orchestra tossed out toward the end of the evening. One of the high-

(Continued on Page 4)

well-executed, and embellished with good tunes.

## NEW TUXEDOS FOR HIRE \$1.50 AND UP

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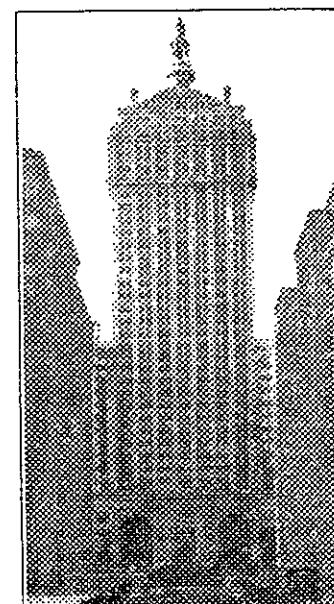
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To combat these drawbacks, the du Pont Company offers TONTINE, the window shade that can be washed, when soiled, with soap and water. Hence, TONTINE shades do not have to be quickly discarded because they have become soiled.

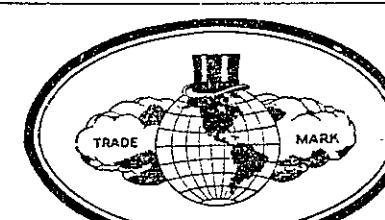
And because they are impregnated with pyroxylin (basically the same substance which makes du Pont Duco so durable) they are unusually resistant to wear and tear. Window shades made by this special du Pont process will not crack, pin-hole, fray or fade. They are long-wearing, always good looking, economical.



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## Calendar

Monday, May 20

Tennis, N. E. J. L. T. A. Matches at Longwood.  
Monday, May 20  
4:15—Battalion Review, R. O. T. C., Coop Field.

Thursday, May 30

8:00—"Tech Night" Pops Concert Symphony Hall.

## Undergraduate

## MUSICAL CLUBS

All members of the Musical Clubs who have applied for charms are requested to call for them as soon as possible at the office of the Clubs in 303 Walker Memorial any afternoon at 5 o'clock.

## FRESHMAN ADVISORS

Upperclassmen asked to be Freshman Advisors next fall should answer

## BOIT THEME PRIZES AWARDED SATURDAY

## Five Sophomores Win \$25 Each in Annual Essay Contest

By the will of Robert A. Boit, the sum of \$5000 was left to the Institute "to stimulate the interest in the best use of the English language." These prizes were established in 1921 and are now awarded to the members of the Sophomore class in English and History on the basis of the required written work done by them. At the lecture in E22 on Saturday prizes of \$25 were distributed to the winners of the theme contest.

The Sophomores winning the awards were: John M. Cleveland for "A Philosophy"; James R. Day for "Poetry of E. A. Robinson"; Frederick M. Moss for "L'Art Moderne"; Gordon D. Sheddell for "In a Station;" and Donald Whiston for "God a Fear?". Of the winners, two are in the regular E22, two in the option, and one in the Honor English.

The judges were Professor Henry G. Pearson, Professor Penfield Roberts, and Mr. Crane Brinton of Harvard.

A monoplane that drops its motor and gasoline tanks to become a glider if necessary is under construction and will undergo tests at the Oakland Municipal Airport. The inventor is Joaquin S. Abreau.

By pulling an emergency lever in case of motor failure or fire, the motor and gasoline tanks, which are carried in an undersection, drop away. The fuselage carries the pilot and passengers to earth as a motorless glider.

Spring skids attached to the fuselage force the lower parts of the plane away when the emergency lever is manipulated and also act as shock absorbers in making a landing.

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Eighty aspirants for the 1929 Oregon State football team answered the first call of Coach Schissler for spring practice.

Forty-five graduates of the Boston University are now serving as presidents of colleges or universities.

## SPANISH GABLES REVERE BEACH AT ELLIOTT CIRCLE

THE RENDEZVOUS OF THOSE WHO DISCRIMINATE  
TOMORROW NIGHT IS  
TECH NIGHT

The Management of the Spanish Gables cordially invites you and your friends to come and inspect this supreme triumph in atmospheric ballrooms and witness the entertainment.

TRUMAN CAREW  
AND HIS ROYAL ENTERTAINERS

They Sing—They Dance—They Entertain  
AND HOW THEY PLAY  
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the T. C. A. as soon as possible stating whether they will or will not act as advisors to the freshmen, if they have not already done so.

## UNDERGRADUATE NOTICE

Students who are graduating in June and who desire a photostat copy of their complete record should apply at the Records Office, Room 3-106. There is a charge of \$1.00 for each photostat. Photostats will be available July 1.

## TRACK TEAM LOSES TO NEW HAMPSHIRE

## Five First Places Are Not Sufficient to Win Meet

(Continued from Page 1)

Bror Grondal, and Pres Crout were the high point winners for M.I.T. Benjamin won the high jump with a height of 6 feet, 1-2 inch, which equals the M.I.T. record for this event. Grondal cleaned up the shot put with a heave of 42 feet, 9 inches, and the discus with a distance of 122 feet, 3 inches. In the hammer throw Crout tossed the weight 140 feet, 5 inches for another first place. New Hampshire took all three places in the broad jump and javelin.

## The summary:

One hundred-yard dash—Won by Burdett (N.H.); second, Ladd (T.); third, Broder (T.). Time—10 2-5s.

Two hundred and twenty-yard dash—Won by Noyes (N.H.); second, Ladd (T.); third, Jandris (T.). Time—22 2-5s.

One hundred and twenty high hurdles—Won by Lucke (N.H.); second, Lawrence (N.H.); third, Burgess (T.). Time—16s.

Two hundred and twenty low hurdles—Won by Smith (N.H.); second, Barron (N.H.); third, Steverman (T.). Time—25 4-5s.

Four hundred and forty-yard run—Won by Noyes (N.H.); second, Halloran (T.); third, Crosby (N.H.). Time—49s.

Eight hundred and eighty-yard run—Won by Lazure (N.H.); second, Berry (T.); third, Cahalan (N.H.). Time—2m 3-5s.

Mile run—Won by Cahalan (N.H.); second, Richardson (N.H.); third, Herberts (T.). Time—2m 3-5s.

Two-mile run—Won by Thorsen (T.); second, Hazen (N.H.); third, McNiff (T.). Time—9m 48 3-5s.

High jump—Won by Benjamin (T.); second, Wooley (N.H.); third, tie between Zigler (T.) and Brooks (N.H.). Height—6 ft. 1-2 in.

Shot put—Won by Grondal (T.); second, Bruce (N.H.); third, Bianchi (N.H.). Distance—42 ft. 9 in.

Broad jump—Won by Wallace (N.H.); second, Wooley (N.H.); third, Brooks (N.H.). Distance—21 ft. 1 in.

Discus—Won by Grondal (T.); second, Chandler (N.H.); third, Douglas (N.H.). Distance—122 ft. 3 in.

Hammer throw—Won by Crout (T.); second, Davis (N.H.); third, Brown (N.H.). Distance—140 ft. 5 in.

Javelin throw—Won by Goeffren (N.H.); second, Stewart (N.H.); third, McCann (N.H.). Distance—178 ft.

Pole vault—Won by Brooks (N.H.); second, Wooley (N.H.); third, tie between Stewart (N.H.), Elmer (T.), and Danforth (T.). Height 11 ft. 9 in.

## Judge Ability of New Students By Intelligence Test

## Results Aid Students to Become Adjusted to Conditions of College Life

Why do college students fail? Which of them could do good work if they would? The University of Kansas spends several hundred dollars annually in giving new students psychological examinations, in an effort to answer these questions.

Although there is no definite relation between grades on these questions and the students' work, there is a high degree of correlation, recent studies show. At the same time, results are not yet definite enough to exclude any student from entering the University. They are, however, valuable in aiding students to become adjusted to college life and in advising them concerning what sort of work they can do best in school.

## Advise Students

Dr. Raymond Wheeler, professor of psychology and head of the Department of Psychology at the University of Kansas, recently finished compiling a report of results obtained since 1921 when the tests were started. This report shows there is no absolute standard of intelligence, and that each group taking the tests sets its own standard, Dr. Wheeler emphasized.

It takes about an hour to give the tests, according to Dr. Wheeler. Several hundred freshmen take them a few days before enrollment and immediately the lowest 20% of the new students is found. At enrollment, if the quiz grade is low and the quiz grade is poor, we try to advise him to carry subjects not too difficult until he becomes adjusted to the new environment.

Results of these examinations are filed in the office of the dean where they are referred to when a case requiring discipline comes up, or when a student wishes to take extra work in the university. Students who rate high in the tests often need special attention also, Dr. Wheeler said, pointing out that in many cases these have no special interest in school work and no definite goal in view.

"We are trying to encourage students of the highest rating to make the best of their opportunities. Some of the brilliant ones drop out. They are disgusted. They say that the college is too easy. For that reason they do not have the desire to study very much.

It has been only in the last few years that this type of quiz has been used in testing the ability of adults. The intelligence test used with children cannot be used on adults. A person grows differently mentally after he is 16 or 18 years old, Dr. Wheeler explained. That is why the tests used at the university base a person's ability in comparison with the achievement of the whole group.

## BRITISH STUDENTS WILL STUDY HERE

## Five Honor Men to Take Courses at M.I.T. and Harvard

Five of the thirty honor students of British and Colonial universities who have been awarded the Commonwealth Fund Fellowship will study at Harvard and Massachusetts Institute of Technology next year according to announcement from New York. The fellowships were established in New York, five years ago by the Commonwealth Fund of which Edward S. Harkness is president.

Four of the five will enroll at Harvard; the fifth, Mr. Dennis M. Robinson, King's College, London, will study at M.I.T.

## COMBINED SOCIETIES ELECTS NEW OFFICERS

Meeting for the last time this year, to choose new officers the Combined Professional Societies elected Roy W. Chamberlain '31 to the Chairmanship of the Societies and re-elected secretary-treasurer Arthur S. Allen, Jr. '30 last Friday afternoon. For this meeting the organization moved from its old location in Room 3-212 into Room 1-238 its new office, formerly the office of Professor Hale Sutherland '10 of the Civil Engineering Department.

With their principle accomplishment the management of Open House the Societies have concluded a highly successful year in the opinion of Gordon F. Rogers '29, retiring chairman. "Open House went over well this year," said Rogers, "because so many activities were scheduled for the day that those who visited invariably found some feature which specially attracted them."

## APPLY SCIENCE TO BUSINESS METHODS

## Department of Economics Making Valuable Contributions to New System

(Continued from Page 1)

to specific industries. It has been demonstrated that the general formula can be simplified by the introduction of constants for certain conditions in particular factories, which makes the equation for this specific product very easy to handle.

The results of this research are to be applied experimentally this summer in several industries. A number of industrial concerns have shown interest in having the development applied to their particular problems. On the other hand a certain amount of scepticism exists as to the possibility of reducing such things as style changes, buying opportunities, distribution problems, and human efficiency to a mathematical expression. But as with many radically new developments the disbelief of the world is merely the proof of its originality and is quickly dispelled by a practical demonstration.

## A New Era in Business Management

Through this pioneering research in management technique the Institute hopes to take a leading place in the new methods of teaching business management. The application of the "technical audit"—a balance sheet of management, the use of mathematical analysis in solving production problems, and the development of universal principles of management upon a scientific basis are certain to have a wide effect on the business world, and Technology is in a position to make valuable contributions to these developments. "Engineering Administration," at first merely the designation of the course in business management at Technology, bids fair to become the slogan of a world-wide reform in business methods.

## Away from the Grind

(Continued from Page 2)

lights of the affair was the presence of the noted star, Helen Kane, who attended in the company of Jo Ferrer. About one o'clock she entertained the company with a song.

## LAMBDA CHI ALPHA

The annual reception and tea for parents living nearby was held at the Lambda Chi Alpha house yesterday afternoon, with about thirty present. The guests were invited to inspect the house, and all were pleased with the custom, declaring that they would support it as long as it was continued.

## SIGMA NU

Francis A. Mesker '27, from St. Louis, is visiting Boston this week, and has visited the Sigma Nu house several times. He was president of the house two years ago.

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## GOLFERS LOSE LAST MEET TO BOWDOIN

## Season Closes With 2 Wins, and 6 Losses for Technology

In their last match of the season, the M. I. T. golf team lost to Bowdoin by the score of 4 to 2 at the Weston Country Club on Saturday morning. In the first foursome Ed Yates of M. I. T. lost 7 and five, and Dick Yates won 2 and 1. The Engineers lost the best ball of this foursome and 2.

On the second foursome Tom Fearnside of Technology lost 7 and six, while Gordon Williams won 5 and 3. Here again the Engineers lost the best ball, by the score of 2 and 1.

## Yates Elected Captain

Dick Yates, who played consistently good golf all the season, winning five of his eight individual matches, was elected captain for the season of 1929-30. Ed Yates, who has been captain of the team for the last three years and manager as well in 1928, won four of his eight matches. Fearnside is a Sophomore playing his first year on the Institute team. Though he lost all his matches, he showed great promise for the future. Williams, a Senior, played his second year on the team, winning two matches out of eight.

The summary of the season's meets is as follows:

M.I.T. 3	Boston College 6
M.I.T. 3	Worcester Polytechnic 3
M.I.T. 0	Harvard 6
M.I.T. 6	Williams *0
M.I.T. 0	Boston University 6
M.I.T. 0	Yale 6
M.I.T. 2	West Point 4
M.I.T. 4	Tufts 2
M.I.T. 2	Bowdoin 4

(\*Game forfeited.)

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